



Data Taking Statistics

Week of 2003 March 28 - April 3

Day	Date	Del	Normalizable Luminosity (pb ⁻¹)			Hours			Norm. Events (k)		Efficiency	
			Util	Rec	Physics	Store	Util	Rec	Rec	Physics	Rec	Phys
Fri	28-Mar-03	303.00	285.81	241.65	241.65	7.7	7.2	6.6	927	927	0.798	0.798
Sat	29-Mar-03	869.19	861.54	786.18	786.18	12.2	12.1	11.8	1776	1776	0.904	0.904
Sun	30-Mar-03	328.07	323.35	287.95	287.95	7.5	7.4	7.1	956	956	0.878	0.878
Mon	31-Mar-03	1168.97	1134.36	975.57	975.57	19.7	19.2	17.7	2430	2430	0.835	0.835
Tue	1-Apr-03	398.44	395.63	345.30	345.30	8.0	7.9	7.3	965	965	0.867	0.867
Wed	2-Apr-03	1028.55	1017.24	896.56	896.56	13.0	12.9	12.1	1823	1823	0.872	0.872
Thu	3-Apr-03	527.69	510.97	482.05	482.05	10.8	10.5	10.3	1394	1394	0.914	0.914
		4623.9	4528.9	4015.3	4015.3	78.9	77.2	72.9	10271	10271	0.868	0.868

	Recorded Physics Lumi	Efficiency	Physics Events (million)
This Week	4.0 pb⁻¹	86.8%	10.3
Last Week	2.4 pb⁻¹	76.7%	6.3
Best Week (2003 March 14-20)	5.8 pb⁻¹	84.9%	10.7



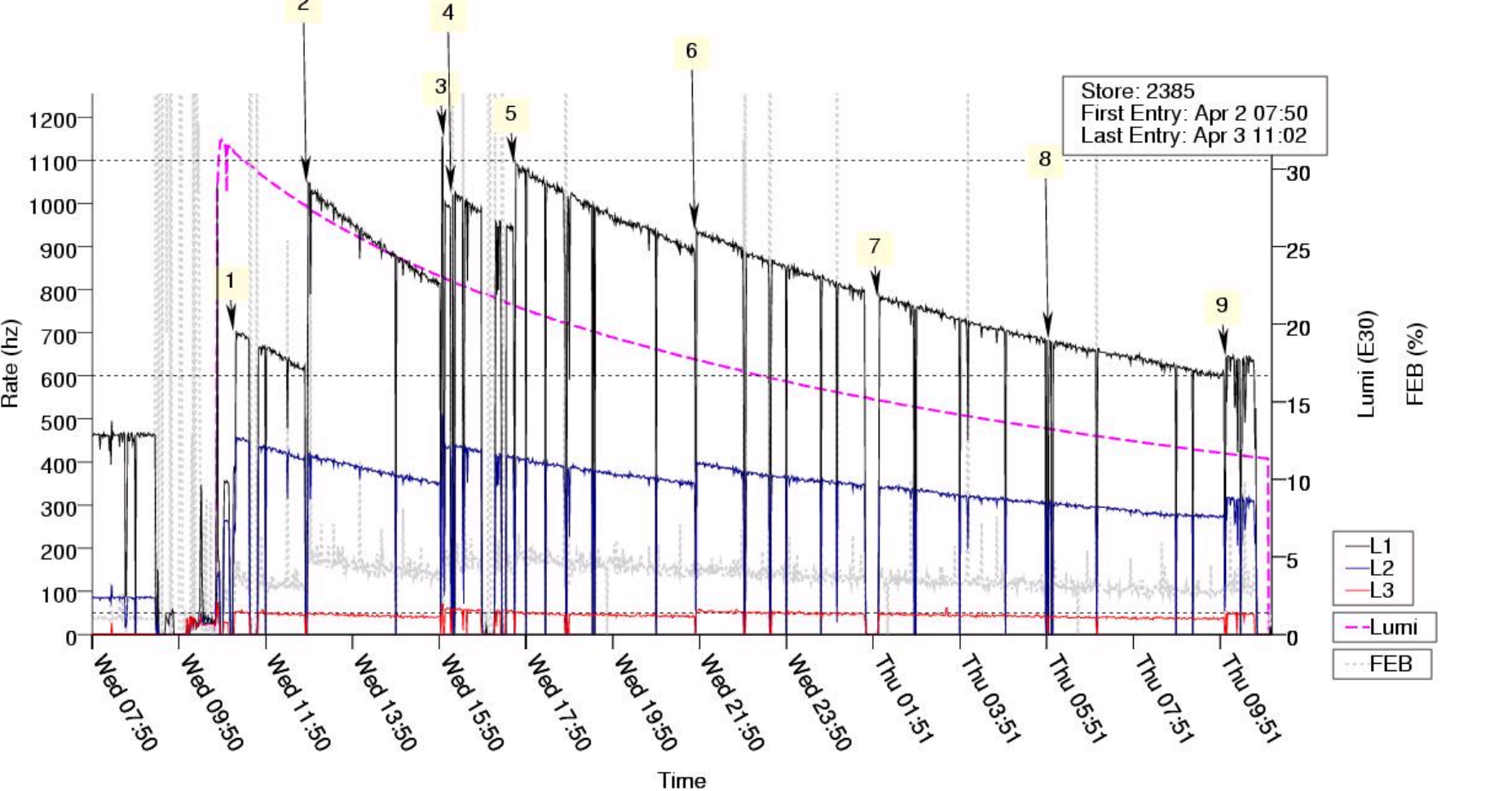
Delivered Luminosity Losses

Major Sources of Downtime: Not recording during a store (>0.25 hrs)

Mar 28 - Apr 3, 2003	28-Mar-03	7:04	0.43	PC20 Water Flow Sensor
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Other Losses

- ~2.0 hrs: SMT HDIs - several times during stores
 - Silicon device gets “stuck” and needs to be reinitialized or disabled
 - This is our largest source of inefficiency for the past three weeks
- ~0.5 hr: 30 Run transitions (~1 minute/per)
- ~0.5 hr: 9 Begin or End Store transitions (~3 minutes/per)
 - Improving downtime at the beginning and end of stores!
- ~2-3 hrs: Average 5% FEB during physics data taking





Plans for Upcoming Week

- Need to resurvey the West & North EF in a timely fashion
 - Can do in separate jobs
 - 1-2 hours for WEF & 2-3 hours for NEF
 - Make sure your jobs are on the board as well
- Continue with global_CMT-11.02 trigger list
 - L1/L2/L3 rates are capped at 1100/500/55 Hz
 - With 10% wiggle room for “hot” periodic triggers or slightly larger pbar halos at the beginning of the store
- Need more vigilance AND communication
 - Shift Captains with input from System Experts and DAQ Shifters should make the decisions about run pauses or transitions
 - If problem(s) are not inhibiting data flow
 - Other shifters need to be kept informed as well
 - Examines, checklists, logbook entries, etc.
- Likely to be 3-5 shifts of beam studies next week